

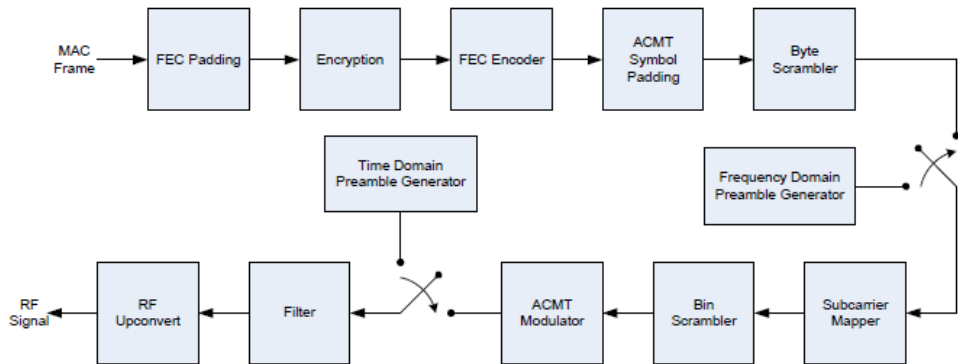
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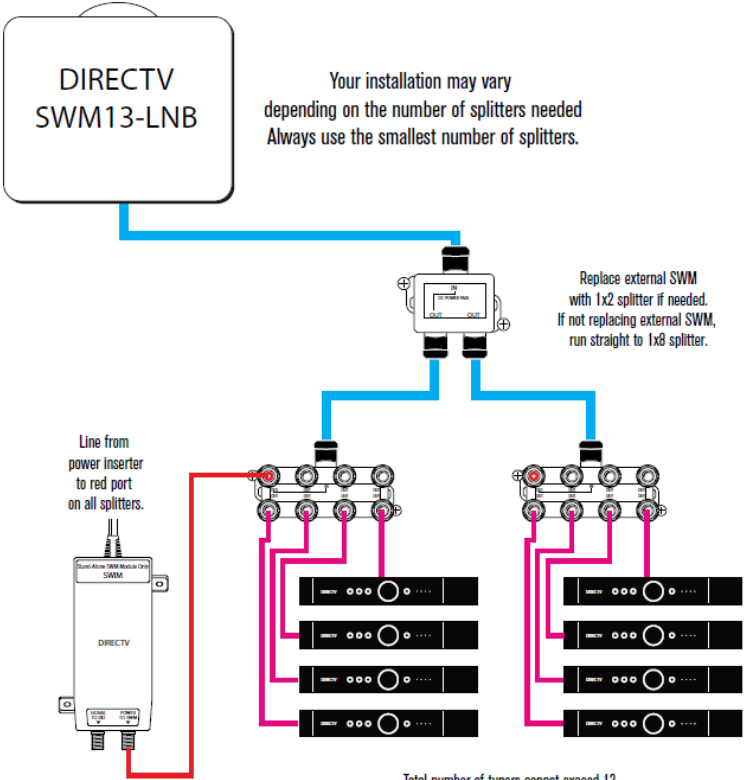
U.S. Patent No. 8,621,539 (“the ’539 Patent”) Exemplary Infringement Chart

The Accused MoCA Instrumentalities are instrumentalities that DirecTV deploys to provide a whole-premises DVR network over an on-premises coaxial cable network, with devices operating with data connections compliant with MoCA 1.0, 1.1, and/or 2.0. The Accused MoCA Instrumentalities include the DirecTV HR24, DirecTV HR34, DirecTV HR44, DirecTV HR54, DirecTV HS17, DirecTV C31, DirecTV C41, DirecTV C51, DirecTV C61, DirecTV C61K and substantially similar instrumentalities. DirecTV literally and/or under the doctrine of equivalents infringes the claims of the ’539 Patent under 35 U.S.C. § 271(a) by making, using, selling, offering for sale, and/or importing the Accused MoCA Instrumentalities.

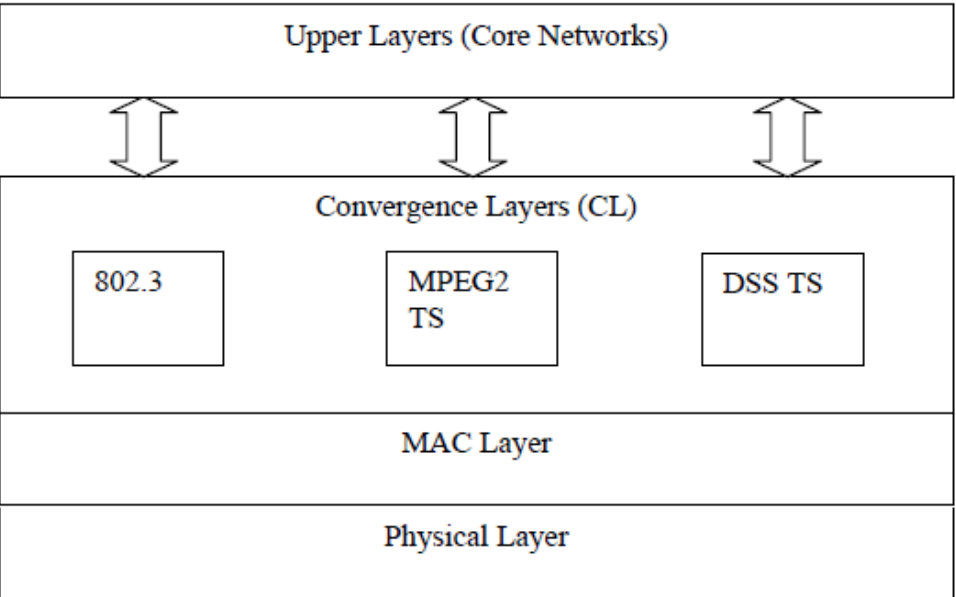
U.S. Patent No. 8,621,539	The Accused MoCA Instrumentalities Form a Network That Practices at Least Claim 1 of the ’539 Patent
1. A modem for communication to at least one node across at least one channel of a coaxial network, the modem comprising:	<p>The Accused Services are provided using at least the Accused MoCA Instrumentalities including gateway devices (including, but not limited to, the DirecTV HR24, DirecTV HR34, DirecTV HR44, DirecTV HR54, DirecTV HS17, and devices that operate in a similar matter) and client devices (including, but not limited to, the DirecTV C31, DirecTV C41, DirecTV C51, DirecTV C61, DirecTV C61K, and devices that operate in a similar manner), and substantially similar instrumentalities. The Accused MoCA Instrumentalities operate to communicate to at least one node across at least one channel of a coaxial network as described below.</p> <p>The DirecTV full-premises DVR network constitutes a coaxial network as claimed. The DirecTV full-premises DVR network is a MoCA network created between gateway devices and client devices using the on-premises coaxial cable network. This MoCA network is compliant with MoCA 1.0, 1.1, and/or 2.0.</p> <p>“The MoCA system network model creates a coax network which supports communications between a convergence layer in one MoCA node to the corresponding convergence layer in another MoCA node.”</p>

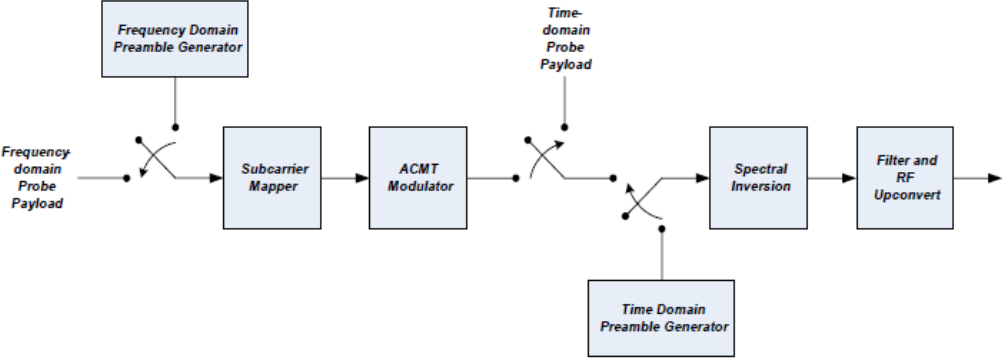
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	<p>(MoCA 1.0, Section 1. <i>See also</i> MoCA 1.1, Section 1.1; MoCA 2.0, Section 1.2.2)</p> <p>“The MoCA Network transmits high speed multimedia data over the in-home coaxial cable infrastructure.”</p> <p>(MoCA 1.0, Section 2. <i>See also</i> MoCA 1.1, Section 2; MoCA 2.0, Section 5)</p> <p>“PHY data packets carry MAC data and control frames as PHY payload. Figure 4-3 shows an example of how a PHY data packet is constructed from a MAC frame. In this example, the FEC-padded MAC frame is encrypted and encoded into two Reed-Solomon code words, the last code word being shortened to minimize FEC padding. The encoded data is ACMT padded, scrambled and modulated onto the sub-carriers of three ACMT symbols. The ACMT symbols are bin-scrambled and then transformed to the time-domain where a cyclic prefix is added to each ACMT symbol to obtain the PHY data payload. Finally, a preamble is prepended to the PHY data payload and is filtered and upconverted to RF for transmission onto the media. In practice, the number of Reed-Solomon code words and number of ACMT symbols per PHY data packet will vary as a function of the MAC frame size and modulation profile. The processing steps referred to here are specified in Section 4.3.”</p> <p>(MoCA 1.0, Section 4.2.1.2. <i>See also</i> MoCA 1.1, Section 4.2.1.2, MoCA 2.0, Section 14.2)</p>

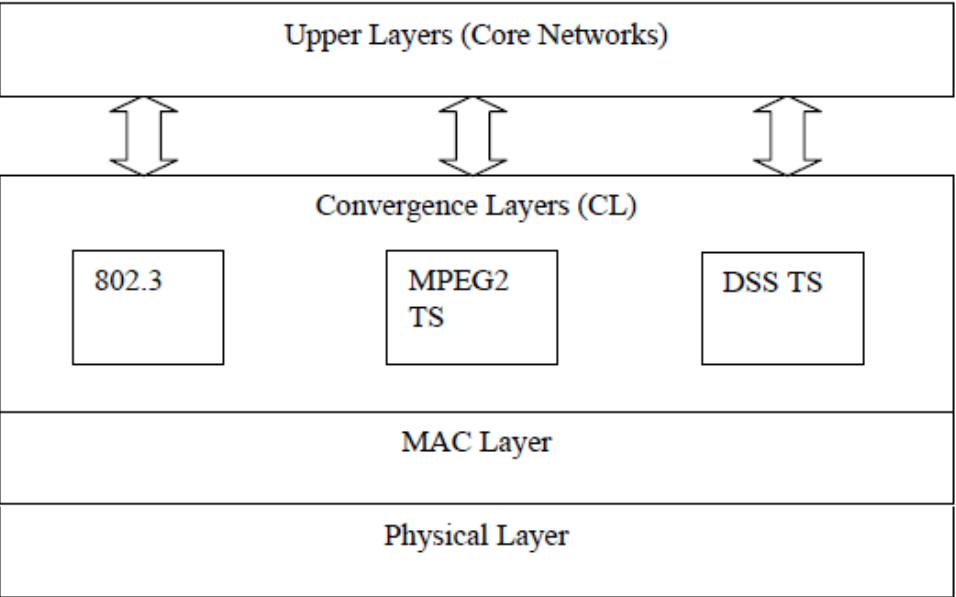
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	 <p>The flowchart illustrates the PHY Data Packet Transmission Processing. It begins with a 'MAC Frame' input to a 'FEC Padding' block. The output of 'FEC Padding' goes to 'Encryption', which then goes to 'FEC Encoder'. The output of 'FEC Encoder' goes to 'ACMT Symbol Padding', which then goes to 'Byte Scrambler'. The output of 'Byte Scrambler' goes to a switch. The output of the switch goes to 'Subcarrier Mapper', which then goes to 'Bin Scrambler'. The output of 'Bin Scrambler' goes to 'ACMT Modulator'. The output of 'ACMT Modulator' goes to a switch. The output of this switch goes to 'Filter', which then goes to 'RF Upconvert'. The output of 'RF Upconvert' is the 'RF Signal'. Additionally, there are two 'Preamble Generator' blocks: 'Time Domain Preamble Generator' and 'Frequency Domain Preamble Generator'. Both have outputs that go to the same switch as the 'ACMT Modulator' output. The output of the 'Frequency Domain Preamble Generator' also goes to the switch before 'Subcarrier Mapper'.</p> <p>Figure 4-2. PHY Data Packet Transmission Processing</p> <p>(MoCA 1.0, Figure 4-2. <i>See also</i> MoCA 1.1, Figure 4-2, MoCA 2.0, Figure 14-2)</p> <p>“The MoCA MAC protocol is built on a fully coordinated TDMA channel. It is a distributed network where one of the nodes is automatically selected to be the Network Coordinator (NC), which is responsible for generating the timing and resource allocation for the entire network.”</p> <p>(MoCA 1.0, Section 2.3.1. <i>See also</i> MoCA 1.1, Section 2.3.1, MoCA 2.0, Section 7.4)</p> <p>“In the Admission Request message, the NN MUST send a signal level value indicating how much the NC is to reduce transmit power for subsequent probe transmissions. This information MUST be conveyed back to the NC in the INITIAL_PWR_ADJUSTMENT field of the Admission Request frame. The NC MUST use the value of this INITIAL_PWR_ADJUSTMENT to scale down from its maximum transmit power the power of subsequent probes the NC transmits to the NN.”</p>

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	<p>(MoCA 1.0, Section 3.10.2.1 <i>See also</i> MoCA 1.1, Section 3.10.2.1, MoCA 2.0, Section 7.11.2.1)</p> <p>DirecTV utilizes the MoCA standard to provide an on-premises DVR network over an on-premises coaxial cable network as shown below:</p>  <p>The diagram illustrates a DirecTV MoCA network setup. At the top, a box labeled 'DIRECTV SWM13-LNB' is connected by a blue line to a central switch. A note next to the switch states: 'Your installation may vary depending on the number of splitters needed. Always use the smallest number of splitters.' The switch is connected to two sets of splitters. A note next to the splitters states: 'Replace external SWM with 1x2 splitter if needed. If not replacing external SWM, run straight to 1x8 splitter.' Each set of splitters is connected to a stack of four DVRs. A red line from a 'Line from power inserter to red port on all splitters.' connects to the red port of the top splitter in each stack. A note at the bottom states: 'Total number of tuners cannot exceed 13. Genie = 5 tuners (each Genie Client = 0 tuners) DVR = 2 tuners, receiver = 1 tuner'.</p>
a transmitter; and	The Accused MoCA Instrumentalities include a transmitter as described below.

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	<p>For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules constituting a transmitter.</p> <p>“The MoCA system includes convergence layers for core networks such as IEEE 802.3 (Ethernet), video streams (i.e., MPEG-2 transport) and digital satellite streams (i.e. DSS transport). The MoCA system network model creates a coax network which supports communications between a convergence layer in one MoCA node to the corresponding convergence layer in another MoCA node. The protocol stack of a MoCA node is shown in Figure 1-1. The protocol stack consists of the physical layer, the MAC layer and one or more convergence layers (CL).” (MoCA 1.0, Section 1. <i>See also</i> MoCA 1.1, Section 1; MoCA 2.0, Section 5.1)</p>

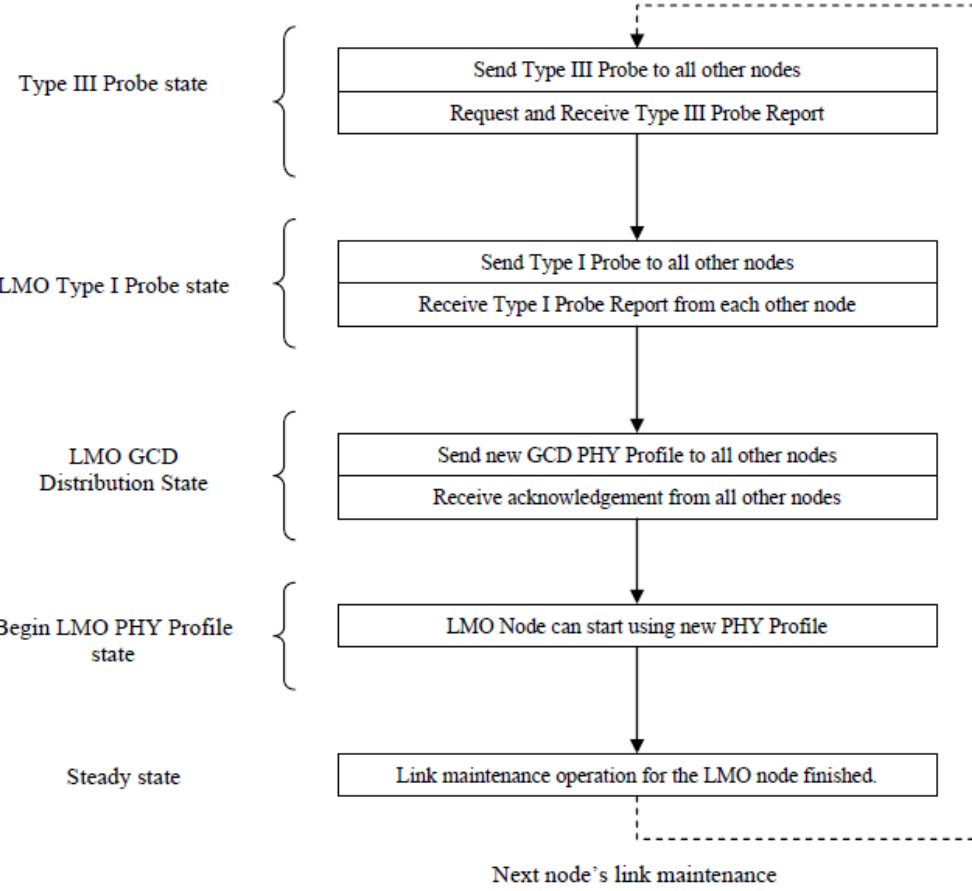
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	 <p style="text-align: center;">Figure 1-1. MoCA Node Protocol Stack</p> <p>(MoCA 1.0, Figure 1-1. <i>See also</i> MoCA 1.1, Figure 1-1; MoCA 2.0, Figure 5-1)</p>

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	 <p>Figure 4-4. PHY Probe Transmission Processing</p> <p>(MoCA 1.0, Figure 4-4. <i>See also</i> MoCA 1.1, Figure 4-4, MoCA 2.0, Figure 14-4)</p> <p>“PHY probe packets are used to ascertain various transmission medium characteristics. For frequency-domain probes, the probe payload is specified in the frequency domain and ACMT modulated. The steps in construction of a frequency-domain probe are illustrated in Figure 4-5 for a 3 ACMT symbol probe example. In this example, the probe payload is modulated onto the subcarriers of three ACMT symbols. The ACMT symbols are transformed to the time-domain where a cyclic prefixed is added to each ACMT symbol to obtain the PHY probe payload. Finally, a preamble is prepended to the PHY probe payload and is filtered and upconverted to RF for transmission onto the media.”</p> <p>(MoCA 1.0, Section 4.2.2.2. <i>See also</i> MoCA 1.1, Section 4.2.2.2; MoCA 2.0, Section 14.2.2.1)</p>
a MAC layer in signal communication with the transmitter, the MAC layer using at least one probe packet as an echo profile probe to	The Accused MoCA Instrumentalities include a MAC layer in signal communication with the transmitter, the MAC layer using at least one probe packet as an echo profile probe to measure node delay spread on the network and the MAC layer optimizing

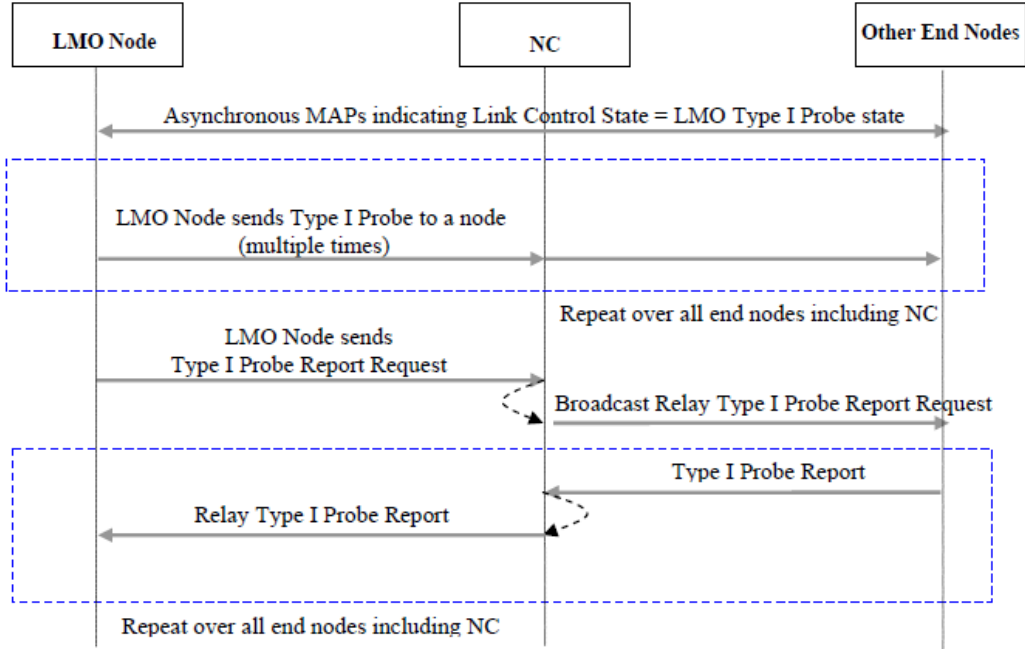
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<p>measure node delay spread on the network and the MAC layer optimizing the preamble and cyclic prefix requirements or other parameters in response to the measured node delay spread on the network;</p>	<p>the preamble and cyclic prefix requirements or other parameters in response to the measured node delay spread on the network as described below.</p> <p>For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules constituting a MAC layer in signal communication with the transmitter, the MAC layer using at least one probe packet as an echo profile probe to measure node delay spread on the network and the MAC layer optimizing the preamble and cyclic prefix requirements or other parameters in response to the measured node delay spread on the network.</p>  <pre> graph TD UL[Upper Layers (Core Networks)] <--> CL[Convergence Layers (CL)] subgraph CL_Box [Convergence Layers (CL)] direction LR CL1[802.3] CL2[MPEG2 TS] CL3[DSS TS] end CL_Box --> MAC[MAC Layer] MAC --> PL[Physical Layer] </pre> <p>The diagram illustrates the MoCA Node Protocol Stack. It consists of five main layers. At the top is the 'Upper Layers (Core Networks)' layer. Below it is the 'Convergence Layers (CL)' layer, which contains three sub-components: '802.3', 'MPEG2 TS', and 'DSS TS'. Below the Convergence Layers is the 'MAC Layer', and at the bottom is the 'Physical Layer'. Bidirectional arrows connect the Upper Layers to the Convergence Layers, and unidirectional arrows point from the Convergence Layers to the MAC Layer, and from the MAC Layer to the Physical Layer.</p> <p>Figure 1-1. MoCA Node Protocol Stack</p>

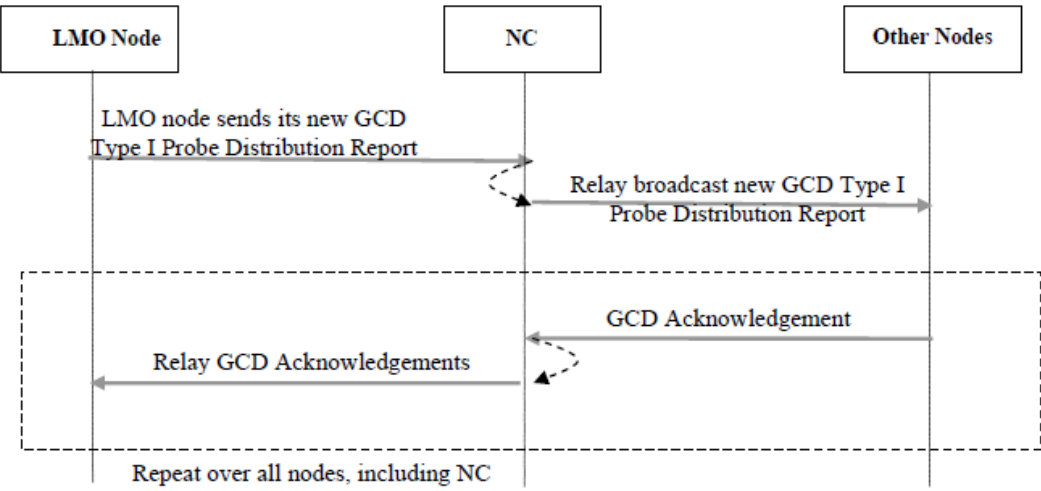
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	<p>(MoCA 1.0, Figure 1-1. <i>See also</i> MoCA 1.1, Figure 1-1; MoCA 2.0, Figure 5-1)</p> <p>“The NC MUST indicate the beginning of the LMO signal exchange for a node by indicating the Link Control State “Type III Probe” (LINK_STATE = 0x07) and by setting LMO_NODE field of asynchronous MAPs to the Node ID of the LMO Node. The LMO_DESTINATION_NODE should always be set to 0x3F. Subsequently, all nodes MUST follow signal exchanges defined in this section.”</p> <p>(MoCA 1.0, Section 3.7. <i>See also</i> MoCA 1.1, Section 3.7; MoCA 2.0, Section 8.9)</p> <p>“A variety of physical layer frequency-domain and time-domain probes are used to create modulation profiles, optimize performance, and allow for various calibration mechanisms. Type I Modulation Profile Probes are frequency domain probes used to determine modulation profiles of the channel between any two nodes. Type II Probes are frequency domain probes consisting of two tones that may be used to fine tune performance. A Type III Echo Profile Probe may be used to determine the impulse response of the channel. This information can be used to optimize various physical layer parameters. In addition to the above probes, this specification provides opportunities for various unique Loopback Transmissions which may be useful for RF calibration, among other things.”</p> <p>(MoCA 1.0, Section 2.2. <i>See also</i> MoCA 1.1, Section 2.2; MoCA 2.0, Section 5.2)</p> <p>“As shown in Figure 3-11, the first state for the LMO of a node is the Type III Probe State. In this Link Control state, the LMO node transmits Type III Probes to all other nodes and receives reports back from them. This state is followed by the LMO Type I Probe state. In this Link Control state, the LMO node transmits Type I Probes to all other nodes and receives Type I Probe Reports back from them. The next Link Control state is the LMO GCD Distribution state. In this state, the LMO node sends</p>

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	<p>the newly computed GCD PHY Profile to all other nodes and receives acknowledgements back from them. The next Link Control state is the Begin LMO PHY Profile state. The LMO node can begin using its new PHY Profile after the NC indicates this state in asynchronous MAPs.”</p> <p>(MoCA 1.0, Section 3.7.1. See also MoCA 1.1, Section 3.7.1; MoCA 2.0, Section 8.9)</p>

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	<p data-bbox="850 284 1060 316">Link Control State</p> <p data-bbox="1396 284 1585 316">Processing Steps</p>  <pre> graph TD subgraph Link_Control_State [Link Control State] direction TB S1["Send Type III Probe to all other nodes Request and Receive Type III Probe Report"] S2["Send Type I Probe to all other nodes Receive Type I Probe Report from each other node"] S3["Send new GCD PHY Profile to all other nodes Receive acknowledgement from all other nodes"] S4["LMO Node can start using new PHY Profile"] S5["Link maintenance operation for the LMO node finished."] S1 --> S2 S2 --> S3 S3 --> S4 S4 --> S5 end S1 S2 S3 S4 S5 S5 -.-> Next["Next node's link maintenance"] </pre> <p data-bbox="1102 1274 1575 1307">Figure 3-11. Link Control States during LMO</p> <p data-bbox="819 1323 1879 1356">(MoCA 1.0, Figure 3-11. See also MoCA 1.1, Figure 3-14; MoCA 2.0, Section 8.9)</p>

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	<p>“After the previous signal exchanges, the LMO Node MUST request bandwidth to broadcast N11 Type III Probes to all nodes in the network. For scheduling the transmission of the Type III Probes, the LMO node MUST request transmission time of 2164 SLOT_TIMES7. This bandwidth MUST be requested by receiving asynchronous MAPs and sending a reservation request. Details of Type III Probe are given in Section 4.5.3. [...] The NC and EN’s MUST receive these probe transmissions and use them to re-calculate the CP_LENGTH parameter of PHY profile.” (MoCA 1.0, Section 3.7.2.2. <i>See also</i> MoCA 1.1, Section 3.7.2.2; MoCA 2.0, Section 8.9)</p> <p>“Once an EN sends its Type III probe report, it MUST begin reporting next state (LMO Type I Probe state) in its Reservation Requests. When the LMO node receives probe reports from all other nodes (relayed by the NC), it MUST begin reporting the next Link Control state (LMO Type I Probe state) in its Reservation Requests. Once the NC receives next state indication in the Reservation Requests of all nodes, it changes the Link Control state of the network to “LMO Type I Probe” state. In this Link Control State, the transmit channel from the LMO node to all other nodes in the network (including NC) is characterized and the modulation used on this channel is optimized. The signal exchange diagram of Figure 3-13 shows the messages exchanged during this state.” (MoCA 1.0, Section 3.7.3. <i>See also</i> MoCA 1.1, Section 3.7.3; MoCA 2.0, Section 8.9)</p>

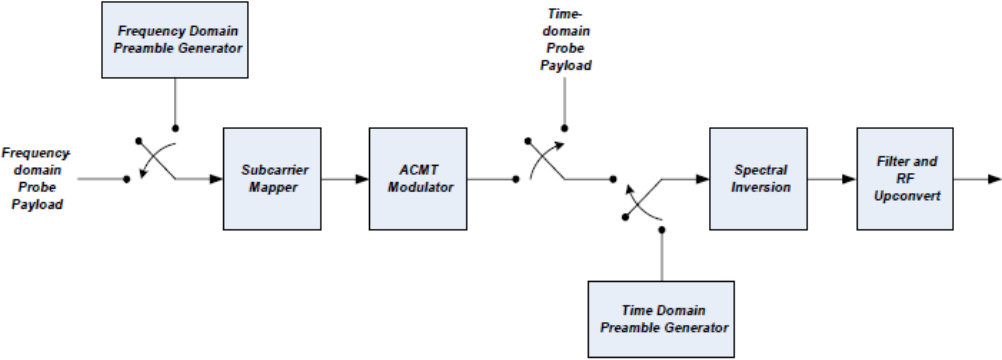
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	 <pre> sequenceDiagram participant LMO as LMO Node participant NC as NC participant Other as Other End Nodes LMO->>Other: Asynchronous MAPs indicating Link Control State = LMO Type I Probe state LMO->>Other: LMO Node sends Type I Probe to a node (multiple times) LMO->>Other: LMO Node sends Type I Probe Report Request LMO->>Other: Relay Type I Probe Report Other->>NC: Broadcast Relay Type I Probe Report Request Other->>NC: Type I Probe Report NC->>LMO: Relay Type I Probe Report </pre> <p>Figure 3-13. Messages Exchanged During the LMO Type I Probe State (MoCA 1.0, Figure 3-13. <i>See also</i> MoCA 1.1, Figure 3-16, MoCA 2.0, Section 8.9)</p> <p>“When NC receives indication by all other nodes in the network (including LMO node) in their reservation request (NEXT_LINK_STATE = 0x9) that they have finished signal exchanges of the previous state, NC MUST begin advertising LMO GCD Distribution state. This state is indicated by value 0x09 in the Asynchronous MAPs. When the LMO node receives Type I Probe Reports from all other nodes, it must re-calculate its GCD PHY Profiles and send back to all other nodes. Signals exchanged in this state are shown in Figure 3-14.”</p>

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	<p>(MoCA 1.0, Section 3.7.4. <i>See also</i> MoCA 1.1, Section 3.7.4; MoCA 2.0, Section 8.9)</p>  <pre> sequenceDiagram participant LMO as LMO Node participant NC as NC participant Other as Other Nodes LMO->>NC: LMO node sends its new GCD Type I Probe Distribution Report NC->>Other: Relay broadcast new GCD Type I Probe Distribution Report Other->>NC: GCD Acknowledgement NC->>LMO: Relay GCD Acknowledgements </pre> <p style="text-align: center;">Repeat over all nodes, including NC</p> <p style="text-align: center;">Figure 3-14. Messages Exchanged During GCD Distribution State</p> <p>(MoCA 1.0, Figure 3-14. <i>See also</i> MoCA 1.1, Figure 3-18, MoCA 2.0, Section 8.9)</p> <p>“After the LMO node has received acknowledgments from all nodes, it MUST advance its LINK_STATE field to “Begin LMO PHY Profile” state. When the NC receives the updated LINK_STATE indication from all other nodes in the network, it MUST advance the Link Control state of the network to “Begin LMO PHY Profile” state. When the LMO node receives this Link Control state indication, it can begin using newly computed PHY profiles (including transmit power settings) as described in Section 3.13.3.”</p>

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	<p>(MoCA 1.0, Section 3.7.5. <i>See also</i> MoCA 1.1, Section 3.7.5; MoCA 2.0, Section 8.9)</p> <p>“The Type I Probe Report conveys critical information about channel conditions such as Modulation Profile and Power Control. The calculated parameters of this report are derived from Type I and optionally from Type III Probes and are described in Table 3-27. These parameters are to be used in future transmissions to the node that sent the report.”</p> <p>(MoCA 1.0, Section 3.13.3.1. <i>See also</i> MoCA 1.1, Section 3.13.3.1, MoCA 2.0, Section 8.3.4.1.7)</p>

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	<p data-bbox="919 289 1545 315">Table 3-27. Type I Probe Report Calculated Parameters</p> <table data-bbox="825 329 1640 1060"> <tr> <th data-bbox="825 329 1224 363">Parameter</th><th data-bbox="1224 329 1640 363">Explanation</th></tr> <tr> <td data-bbox="825 363 1224 496">PREAMBLE_TYPE</td><td data-bbox="1224 363 1640 496">Preamble Type P3 or P4 (see Section 4.4.2). Selection is based on channel conditions. For MAP elements, this field is Reserved.</td></tr> <tr> <td data-bbox="825 496 1224 594">BITS_PER_ACMT_SYMBOL</td><td data-bbox="1224 496 1640 594">The total number of bits per ACMT symbol, calculated from the Modulation Profile.</td></tr> <tr> <td data-bbox="825 594 1224 760">CHANNEL_USABLE</td><td data-bbox="1224 594 1640 760">Defines if the bandwidth passes the Admission Limit (Section 8.1.5) during Admission or Minimum Link Throughput (Section 8.1.6) during LMO.</td></tr> <tr> <td data-bbox="825 760 1224 889">CP_LENGTH</td><td data-bbox="1224 760 1640 889">Cyclic Prefix length to be used in future unicast transmissions. May also be used to calculate the CP length for GCD transmissions.</td></tr> <tr> <td data-bbox="825 889 1224 956">TPC_BACKOFF_MAJOR</td><td data-bbox="1224 889 1640 956">Outer Loop Power Control backoff</td></tr> <tr> <td data-bbox="825 956 1224 1023">TPC_BACKOFF_MINOR</td><td data-bbox="1224 956 1640 1023">Outer Loop Power Control backoff</td></tr> <tr> <td data-bbox="825 1023 1224 1060">SC_MOD</td><td data-bbox="1224 1023 1640 1060">Modulation Profile</td></tr> </table> <p data-bbox="816 1078 1860 1110">(MoCA 1.0, Table 3-27. <i>See also</i> MoCA 1.1, Table 3-33, MoCA 2.0, Table 6-32)</p> <p data-bbox="816 1162 1896 1320">“The Cyclic Prefix length identified here SHOULD be the same as that in the Type III Probe Report. The new CP is used for data transmissions after the profile has been switched through the Begin PHY Profile State or Begin LMO PHY Profile State message (Section 3.5).”</p> <p data-bbox="816 1331 1896 1403">(MoCA 1.0, Section 3.13.3.1. <i>See also</i> MoCA 1.1, Section 3.13.3.1, MoCA 2.0, Section 8.3.4.1.7)</p>	Parameter	Explanation	PREAMBLE_TYPE	Preamble Type P3 or P4 (see Section 4.4.2). Selection is based on channel conditions. For MAP elements, this field is Reserved.	BITS_PER_ACMT_SYMBOL	The total number of bits per ACMT symbol, calculated from the Modulation Profile.	CHANNEL_USABLE	Defines if the bandwidth passes the Admission Limit (Section 8.1.5) during Admission or Minimum Link Throughput (Section 8.1.6) during LMO.	CP_LENGTH	Cyclic Prefix length to be used in future unicast transmissions. May also be used to calculate the CP length for GCD transmissions.	TPC_BACKOFF_MAJOR	Outer Loop Power Control backoff	TPC_BACKOFF_MINOR	Outer Loop Power Control backoff	SC_MOD	Modulation Profile
Parameter	Explanation																
PREAMBLE_TYPE	Preamble Type P3 or P4 (see Section 4.4.2). Selection is based on channel conditions. For MAP elements, this field is Reserved.																
BITS_PER_ACMT_SYMBOL	The total number of bits per ACMT symbol, calculated from the Modulation Profile.																
CHANNEL_USABLE	Defines if the bandwidth passes the Admission Limit (Section 8.1.5) during Admission or Minimum Link Throughput (Section 8.1.6) during LMO.																
CP_LENGTH	Cyclic Prefix length to be used in future unicast transmissions. May also be used to calculate the CP length for GCD transmissions.																
TPC_BACKOFF_MAJOR	Outer Loop Power Control backoff																
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SC_MOD	Modulation Profile																

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	<p>“The SC_MOD parameter is used to define the Modulation Profiles for both unicast packets and GCD packets.” (MoCA 1.0, Section 3.13.3.1. <i>See also</i> MoCA 1.1, Section 3.13.3.1, MoCA 2.0, Section 8.3.4.1.7)</p> <p>“PHY Profile – A set of parameters that defines the modulation between two nodes, including the preamble type, Cyclic Prefix length, Modulation Profile, and transmit power.” (MoCA 1.0, Section 1.2. <i>See also</i> MoCA 1.1, Section 1.2, MoCA 2.0, Section 3)</p> <p>“Modulation Profile - A term used to describe various modulation parameters used for an ACMT transmission.” (MoCA 1.0, Section 1.2. <i>See also</i> MoCA 1.1, Section 1.2, MoCA 2.0, Section 3)</p>
wherein the transmitter communicates the at least one transmit packet.	<p>The transmitter communicates the at least one transmit packet as described below.</p> <p>For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules constituting the transmitter communicating the at least one transmit packet.</p>

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	 <p style="text-align: center;">Figure 4-4. PHY Probe Transmission Processing</p> <p>(MoCA 1.0, Figure 4-4. <i>See also</i> MoCA 1.1, Figure 4-4, MoCA 2.0, Figure 14-4)</p> <p>“PHY probe packets are used to ascertain various transmission medium characteristics. For frequency-domain probes, the probe payload is specified in the frequency domain and ACMT modulated. The steps in construction of a frequency-domain probe are illustrated in Figure 4-5 for a 3 ACMT symbol probe example. In this example, the probe payload is modulated onto the subcarriers of three ACMT symbols. The ACMT symbols are transformed to the time-domain where a cyclic prefixed is added to each ACMT symbol to obtain the PHY probe payload. Finally, a preamble is prepended to the PHY probe payload and is filtered and upconverted to RF for transmission onto the media.”</p> <p>(MoCA 1.0, Section 4.2.2.2. <i>See also</i> MoCA 1.1, Section 4.2.2.2; MoCA 2.0, Section 14.2.2.1)</p>